

**MAPPING AND CACHING OF UNIFORM RESOURCE
LOCATORS FOR SURROGATE WEB SERVER**

ABSTRACT OF THE DISCLOSURE

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A content transformer transforms network content, such as Web pages, so that the content can be displayed on any type of user device. The content transformer functions as surrogate server between any network content server and the user device, so that all content that is received by the user device first passes through the content transformer. During the transformation of content, the content transformer replaces one or more original links on the Web page with corresponding surrogate links. The surrogate link contains an identifier code in place of a resource locator contained in the original link. The content transformer acts as an intermediary for all resource requests that originate from the user device and uses the identifier code to identify the resource locator that was originally associated with the replaced link. The identifier code preferably requires less memory and bandwidth space than the original URL, which is often a long and complex character string.

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